

Version 1.1 Revision Date 03/22/2022 SDS Number 300000078613 Print Date 06/20/2022

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Dynasolve ® 185

Product Use Description : Polymer Remover

Manufacturer/Importer/Distribu

tor

: Versum Materials US, LLC 8555 South River Parkway Tempe, AZ 85284-2601 Exporter EIN No. 47-5632014

www.emdgroup.com/electronics

Telephone : 800 837 2724

Emergency telephone number : 1-80

(24h)

: 1-800-424-9300

(+1) 703-741-5970 (CHEMTREC)

2. HAZARDS IDENTIFICATION

GHS classification

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Toxic to reproduction - Category 1B

GHS label elements

Hazard pictograms/symbols





Signal Word: Danger

Hazard Statements:

H315:Causes skin irritation.

H319: Causes serious eye irritation.

H360:May damage fertility or the unborn child.

Precautionary Statements:

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Prevention : P264:Wash thoroughly after handling.

P280:Wear protective gloves/protective clothing/eye protection/face protection.

P201:Obtain special instructions before use.

P202:Do not handle until all safety precautions have been read and

understood.

P281:Use personal protective equipment as required.

Response : P305+P351+P338 :IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 :If eye irritation persists: Get medical advice/attention. P302+P352 :IF ON SKIN: Wash with plenty of soap and water. P332+P313 :If skin irritation occurs: Get medical advice/attention. P308+P313 :IF exposed or concerned: Get medical advice/attention.

P321 :Specific treatment (see on this label).

P362+P364: Take off contaminated clothing and wash it before reuse.

Storage : P405:Store locked up.

Disposal : P501:Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazards not otherwise classified

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Methyl-2-pyrrolidinone, 1-	872-50-4	75% - 95 %
Ethylene glycol phenyl ether	122-99-6	5% - 20 %
4-Nonylphenol, branched, ethoxylated	127087-87-0	0.5% - 2%

4. FIRST AID MEASURES

General advice : Seek medical advice. If breathing has stopped or is labored, give assisted

respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Eye contact : Rinse immediately with plenty of water also under the eyelids for at least 20

minutes. Remove contact lenses.

Skin contact : Wash off immediately with plenty of water for at least 20 minutes. Immediately

remove contaminated clothing, and any extraneous chemical, if possible to do

so without delay.

Ingestion : Never give anything by mouth to an unconscious person. Prevent aspiration of

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vomit. Turn victim's head to the side.

Inhalation : Treat symptomatically. Move to fresh air.

Most important

symptoms/effects - acute and

delayed

: Eye disease. Skin disorders and Allergies.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam.

Carbon dioxide (CO2).

Dry chemical. Dry sand.

Limestone powder.

Specific hazards : Ammonia gas may be liberated at high temperatures. In case of incomplete

combustion an increased formation of oxides of nitrogen (NOx) is to be expected. Incomplete combustion may form carbon monoxide. Burning produces noxious and toxic fumes. In the event of fire, cool tanks with water

spray . Fire or intense heat may cause violent rupture of packages.

Special protective equipment

for fire-fighters

: Use personal protective equipment. Wear self contained breathing apparatus

for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures : Use self-contained breathing apparatus and chemically protective clothing.

Remove all sources of ignition. Evacuate personnel to safe areas.

Environmental precautions : Use appropriate containment to avoid environmental contamination. Do not

allow spill to enter into sewers or waterways. Construct a dike to prevent

spreading.

Methods for cleaning up : Call Emergency Response number for advice. Approach suspected leak areas

with caution. Absorb with inert absorbent materials such as: Dry sand.

Vermiculite. Activated charcoal. Place in appropriate chemical waste container.

Additional advice : If possible, stop flow of product.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in a dry, cool place. Keep away

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from oxidizers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Provide readily accessible eye wash stations and safety showers.

Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal protective equipment

Respiratory protection : Wear appropriate respirator when ventilation is inadequate.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard

should be worn at all times when handling chemical products if a risk

assessment indicates this is necessary.

Eye protection : Chemical resistant goggles must be worn.

Skin and body protection : Long sleeve shirts and trousers without cuffs.

Environmental exposure

controls

: Use appropriate containment to avoid environmental contamination. Do not

allow spill to enter into sewers or waterways.

Special instructions for

protection and hygiene

: Provide readily accessible eye wash stations and safety showers.

Exposure limit(s)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid. Colorless - Light yellow.

Odor : Amine-like.

Odor threshold : No data available.

pH : No data available.

Melting point/range : No data available.

Boiling point/range : $> 369 \, ^{\circ}\text{F} \, (> 187.2 \, ^{\circ}\text{C})$

Flash point : 201 °F (94 °C) Pensky-Martens Closed Cup

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Evaporation rate : No data available.

Flammability (solid, gas) : Refer to product classification in Section 2

Upper/lower

explosion/flammability limit

: No data available.

Vapor pressure : 0.22 mmHg

Water solubility : No data available.

Relative vapor density : No data available.

Relative density : 1.04 (water = 1)

Partition coefficient: noctanol/water [log Kow] : No data available.

Auto-ignition temperature : No data available.

Decomposition temperature : No data available.

Viscosity : No data available.

: No data available.

Density : 64.925 lb/ft3 (1.04 g/cm3)

10. STABILITY AND REACTIVITY

Chemical Stability : Stable under normal conditions.

Conditions to avoid : No data available.

Materials to avoid : Oxidizing agents.

Hazardous decomposition

products

: Carbon monoxide.

Carbon dioxide (CO2). Nitrogen oxides (NOx).

Possibility of hazardous

Reactions/Reactivity

: No data available.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Likely routes of exposure

Effects on Eye : Irritating to eyes.

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Effects on Skin : Causes skin irritation.

Inhalation Effects : Inhalation of vapors and/or aerosols in high concentration may cause irritation

of respiratory system.

Ingestion Effects : May be harmful if swallowed.

Symptoms : No data available.

Acute toxicity

Acute Oral Toxicity : No data is available on the product itself.

Acute Oral Toxicity - Components

Methyl-2-pyrrolidinone, 1-LD50: 4,150 mg/kg Species: Rat male Ethylene glycol phenyl ether LD50: 1,840 mg/kg Species: Rat

Inhalation : No data is available on the product itself.

Inhalation - Components

Methyl-2-pyrrolidinone, 1-LC50 (4 h) : > 5.1 mg/lSpecies: Rat male

Acute Dermal Toxicity : No data is available on the product itself.

Acute Dermal Toxicity - Components

Methyl-2-pyrrolidinone, 1-LD50 : > 5,000 mg/kgSpecies: Rat male Ethylene glycol phenyl ether LD50: 14,391 mg/kg Species : Rat

Skin corrosion/irritation : Irritating to skin.

Serious eye damage/eye

irritation

: Irritating to eyes.

Sensitization. : No data available.

Chronic toxicity or effects from long term exposures

Carcinogenicity : No data available.

Reproductive toxicity : 1-Methyl-2-Pyrrolidone has caused embryotoxic and teratogenic effects in

laboratory animals.

Germ cell mutagenicity : No data is available on the product itself.

Specific target organ systemic

toxicity (single exposure)

: No data available.

Specific target organ systemic

toxicity (repeated exposure)

: No data available.

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Aspiration hazard : No data available.

Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater.Reproductive toxin.Eye disease., Skin disorders and Allergies.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity : No data is available on the product itself.

Toxicity to fish - Components

Methyl-2-pyrrolidinone, 1- LC50 (96 h): 832 mg/l Species: Bluegill (Lepomis macrochirus)

Methyl-2-pyrrolidinone, 1- LC50 (96 h) : 4,000 mg/l Species : Golden Orfe (Leuciscus Iodus L,

Golden variety)

Toxicity to daphnia - Components

Methyl-2-pyrrolidinone, 1- EC 50 (48 h) : > 4,000 mg/l Species : Daphnia Methyl-2-pyrrolidinone, 1- NOEC (21 d) : 12.5 mg/l Species : Daphnia

magna

Toxicity to algae - Components

Methyl-2-pyrrolidinone, 1- EC 50 (72 h) : 600.5 mg/l Species : Algae

(Pseudokirchneriella

subcapitata)

Methyl-2-pyrrolidinone, 1- NOEC (72 h): 92.6 mg/l Species: Algae

(Pseudokirchneriella

subcapitata)

Toxicity to other organisms : No data available.

Persistence and degradability

Biodegradability : No data is available on the product itself.

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

Bioaccumulation - Components

Methyl-2-pyrrolidinone, 1- The product is not bioaccumulating.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused

products

: The product should not be allowed to enter drains, water courses or the soil; dispose of this material and its container in a safe way. Waste from residues / unused products: do not discharge effluent containing this product into

waterways or sewer systems without proper authorization. Contact supplier

if guidance is required.

Contaminated packaging : Dispose of container and unused contents in accordance with federal, state,

and local requirements.

14. TRANSPORT INFORMATION

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

TDG

Not dangerous goods

Further Information

Not classified as dangerous in the meaning of transport regulations. The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact customer service.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA) 12(b) Component(s): Methyl-2-pyrrolidinone, 1-

Country	Regulatory list	Notification		

USA	TSCA	Included on Inventory.
EU	EINECS	Not on Inventory.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Not on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification Acute Health Hazard Chronic Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level

Methyl-2-pyrrolidinone, 1-

Ethylene glycol phenyl ether

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Methyl-2-pyrrolidinone, 1-

16. OTHER INFORMATION

HMIS Rating

Health : 3* Flammability : 1 Physical hazard : 0

Prepared by : Product Compliance Department

Telephone : 800 837 2724

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